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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/839,514	04/20/2001	Paul F. Struhsaker	WEST14-00019	2909
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Docket Clerk P.O. Drawer 800889 Dallas, TX 75380			EXAMINER EWART, JAMES D	
			ART UNIT 2683	PAPER NUMBER //
DATE MAILED: 04/22/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/839,514

Applicant(s)

STRUHSAKER ET AL.

Examiner

James D Ewart

Art Unit

2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 5, 9 and 10.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_.

### ***Specification***

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "*The disclosure concerns,*" "*The disclosure defined by this invention,*" "*The disclosure describes,*" etc.

### ***Claim Rejections - 35 USC § 101***

2. Claims 1, 11 and 17 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd. v. Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

### ***Claim Rejections - 35 USC § 112***

3. Claims 1, 11 and 17 provides for the use of a backplane, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced. The preamble should start off with something like "A system comprising....." or "A method ....." rather than "For use...."

*Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 1,2,4,5,7,10,11,12,14 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Williams et al (EP 0 849 684 A).

Referring to claim 1, Williams et al discloses a system comprising: a backplane (Column 5, Line 21) of an item of electronic equipment wherein said backplane comprises a common control bus (Column 5, Line 29), a system for the on-line insertion of a line replaceable unit into said backplane (Column 4, Lines 20-29 and Column 5, Lines 25-28), said system comprising: a primary master controller inserted into said backplane (Column 1, lines 46-57 and Column 5, Line 29-30 and Figure 1, 22), said primary master controller capable of communicating via said common control bus of said backplane with said line replaceable unit when said line replaceable unit is inserted into said backplane (Column 4, Lines 24-33); wherein said line replaceable unit does not have full access to said backplane when said line replaceable unit is first inserted into said backplane (Column 3, Lines 44-47 and Column 4 Lines 24-33); and wherein said primary master controller is capable of causing said line replaceable unit to have full access to said backplane (Column 5, Line 21).

Referring to claim 11, Williams et al discloses method for the on-line insertion for of an electronic line replaceable unit into a backplane (Column 1, Lines 49-57) which includes a

common control bus (Column 5, Line 29), said method comprising the steps of: inserting a primary master controller into said backplane (Column 1, lines 46-57, Figure 1, 22); inserting said line replaceable unit into said backplane so that said line replaceable unit does not have full access to said backplane (Column 4 Lines 24-33 and Column 3, Lines 44-47); and controlling the access of said line replaceable unit to said backplane with said primary master controller (Column 3, Lines 44-47 and Column 4 Lines 24-33).

Referring to claims 2 and 12, Williams et al further discloses wherein said primary master controller is capable of determining whether said line replaceable unit that is inserted into said backplane is ready for operation (Column 4, lines 48-53).

Referring to claims 4 and 14, Williams et al further discloses wherein said primary master controller is capable of causing said line replaceable unit to have access to full power in said backplane (Column 4, Lines 34-40).

Referring to claims 5 and 15, Williams et al further discloses wherein said primary master controller comprises an interface control processor card (Column 1, Lines 55-57 and Column 4, Line 29), and wherein said line replaceable unit comprises a circuit board card (Column 2, Lines 35-39).

Referring to claim 7, Williams et al further discloses wherein said primary master controller is capable of disconnecting full access of said line replaceable unit to said backplane

Application/Control Number: 09/839,514

Art Unit: 2683

after said primary master controller has caused said line replaceable unit to have full access to said backplane (Column 6, Lines 17-28).

Referring to claim 10, Williams et al teaches a circuit board card capable of being inserted into said backplane (Column 5, Lines 29-36), said circuit board card comprising a hot swap power/in rush controller for regulating power to said circuit board card when said circuit board card is first inserted into said backplane (Column 1, Lines 49-57); and a card processor on said circuit board card said card processor capable of determining whether said circuit board card is located in a non-master controller slot of said backplane (Column 8, Lines 18-35), in which case said circuit board card waits for said primary master controller to cause said circuit board card to have full access to said backplane (Column 8, Lines 18-35).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3 and 13 are rejected under 35 USC 103(a) as being unpatentable over Williams et al and further in view of Lysik et al (U.S. Patent No. 5,754,785).

Referring to claims 3 and 13, Williams et al teaches the limitations of claims 3 and 13, but does not teach wherein said controller is capable of downloading at least one software update to said line replaceable unit to cause said line replaceable unit to be ready for operation. Lysik et al teaches wherein said controller is capable of downloading at least one software update to said line replaceable unit to cause said line replaceable unit to be ready for operation (Column 2, Lines 52-58). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Williams et al with the teaching of Lysik et al wherein said controller is capable of downloading at least one software update to said line replaceable unit to cause said line replaceable unit to be ready for operation to provide a system which conducts a substantially non-disruptive upgrade of communications network equipment (Column 1, Lines 36-39).

6. Claims 6, 9, and 16 are rejected under 35 USC 103(a) as being unpatentable over Williams et al and further in view of Gerhart et al. (EP 0 460 307).

Referring to claims 6 and 16, Williams et al teaches the limitations of claims 6 and 16, but does not teach a secondary master controller inserted into said backplane, said secondary master controller capable of performing the functions of said primary master controller when said primary master controller is not operating. Gerhart et al. teaches a secondary master controller inserted into said backplane, said secondary master controller capable of performing the functions of said primary master controller when said primary master controller is not operating (Page 4, Lines 24-30). Therefore, at the time the invention was made, it would have

been obvious to a person of ordinary skill in the art to combine the art of Williams et al with the teaching of a secondary master controller inserted into said backplane, said secondary master controller capable of performing the functions of said primary master controller when said primary master controller is not operating so that the secondary controller can assume the primary status when the primary controller is not operational (Page 4, Lines 28-30).

Referring to claim 9, Williams et al teaches the limitations of claim 9, including a circuit board card capable of being inserted into said backplane, said circuit board card comprising a hot swap power/in rush controller for regulating power to said circuit board card when said circuit board card is first inserted into said backplane and a card processor on said circuit board card (Column 1, Lines 49-57) but does not teach; wherein said card processor is capable of determining whether said circuit board card is located in a primary master controller slot of said backplane, in which case said circuit board card operates as a primary master controller; and wherein said card processor is capable of determining whether said circuit board card is located in a secondary master controller slot of said backplane, in which case said circuit board card operates as a secondary master controller when said primary master controller is not operating. Gerhart et al. teaches, wherein said card processor is capable of determining whether said circuit board card is located in a primary master controller slot of said backplane (Page 4, Lines 28-30), in which case said circuit board card operates as a primary master controller (Page 4, Lines 28-30); and wherein said card processor is capable of determining whether said circuit board card is located in a secondary master controller slot of said backplane in which case said circuit board card operates as a secondary master controller when said primary master controller is not



operating (Page 4, Lines 28-30). Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Williams et al with the teaching of Gerhart et al. wherein said card processor is capable of determining whether said circuit board card is located in a primary master controller slot of said backplane, in which case said circuit board card operates as a primary master controller; and wherein said card processor is capable of determining whether said circuit board card is located in a secondary master controller slot of said backplane in which case said circuit board card operates as a secondary master controller when said primary master controller is not operating so that the secondary controller can assume the primary status when the primary controller is not operational (Page 4, Lines 28-30).

7. Claims 8 and 17 are rejected under 35 USC 103(a) as being unpatentable over Williams et al and further in view of Gupta et al. (U.S. Patent No. 5,996,083).

Referring to claims 8 and 17, Williams et al teaches the limitations of claims 8 and 17, but does not teach wherein said primary master controller is capable of disconnecting full access of said line replaceable unit to said backplane by disabling power to all but common control power sections of said line replaceable unit. Gupta et al teaches wherein said primary master controller is capable of disconnecting full access of said line replaceable unit to said backplane by disabling power to all but common control power sections of said line replaceable unit (Column 1, Lines 17-32 and Column 4, Lines 5-7). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of

Williams et al with the teachings of Gupta et al wherein said primary master controller is capable of disconnecting full access of said line replaceable unit to said backplane by disabling power to all but common control power sections of said line replaceable unit to reduce power consumption (Column 1, Line 20).

8. Claim 18 is rejected under 35 USC 103(a) as being unpatentable over Williams et al and further in view of Tavallaei (EP 0 898 231 A).

Referring to claim 18, Williams et al teaches a backplane (Column 5, Line 21) of an item of electronic equipment wherein said backplane comprises a common control bus (Column 5, Line 29), a method for the on-line insertion of a line replaceable unit into said backplane (Column 4, Lines 20-29 and Column 5, Lines 25-28), said method comprising the steps of: inserting a circuit board card into said backplane (Column 4, Lines 20-29 and Column 5, Lines 25-28), but does not teach providing a controlled power ramp up to said circuit board card; determining whether a voltage rail has failed; starting a reset timer; running a power on self test on said circuit board card; determining whether said circuit board card passed said power on self test; and activating a common control bus. Tavallaei teaches providing a controlled power ramp up to said circuit board card (Column 12, Lines 36-38); determining whether a voltage rail has failed (0017 and Column 12, Line 39); starting a reset timer (Column 12, line 38); running a power on self test on said circuit board card (Column 12, Line 39); determining whether said circuit board card passed said power on self test; and activating a common control bus (Column 12, lines 39-42). Therefore at the time the invention was made, it would have been obvious to a

person of ordinary skill in the art to combine the art of Williams et al with the teaching of Tavallaei teaches providing a controlled power ramp up to said circuit board card; determining whether a voltage rail has failed; starting a reset timer; running a power on self test on said circuit board card; determining whether said circuit board card passed said power on self test; and activating a common control bus to continue operation with little or no down time (0007).

Referring to claim 20, Williams et al teaches said method further comprising the steps of: determining that said circuit board card is not in a master slot of said backplane (Column 8, Lines 18-35); waiting for a primary master controller to interrogate said circuit board card (Column 8, Lines 18-35); configuring said circuit board card with said primary master controller; activating said circuit board card with said primary master controller; and operating said circuit board card in normal operation (Column 8, Lines 18-35).

9. Claim 19 is rejected under 35 USC 103(a) as being unpatentable over Williams et al and Tavallaei and further in view of Gehart et al.

Referring to claim 19, Williams et al teaches the limitations of claim 19 but does not teach determining whether said circuit board card is in a master slot of said backplane; determining whether said circuit board card is a primary master controller if said circuit board card is in a master slot of said backplane; operating said circuit board card as a primary master controller if said circuit board card is a primary master controller; determining whether said circuit board card is a secondary master controller if said circuit board card is in a master slot of

said backplane; and operating said circuit board card as a secondary master controller if said circuit board card is a secondary master controller. Gerhart et al. teaches determining whether said circuit board card is in a master slot of said backplane; determining whether said circuit board card is a primary master controller if said circuit board card is in a master slot of said backplane (Page 4, Lines 28-30); operating said circuit board card as a primary master controller if said circuit board card is a primary master controller (Page 4, Lines 28-30); determining whether said circuit board card is a secondary master controller if said circuit board card is in a master slot of said backplane; and operating said circuit board card as a secondary master controller if said circuit board card is a secondary master controller (Page 4, Lines 28-30).

Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Williams et al with the teaching of determining whether said circuit board card is in a master slot of said backplane; determining whether said circuit board card is a primary master controller if said circuit board card is in a master slot of said backplane; operating said circuit board card as a primary master controller if said circuit board card is a primary master controller; determining whether said circuit board card is a secondary master controller if said circuit board card is in a master slot of said backplane; and operating said circuit board card as a secondary master controller if said circuit board card is a secondary master controller so that the secondary controller can assume the primary status when the primary controller is not operational (Page 4, Lines 28-30)

*Conclusion*

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

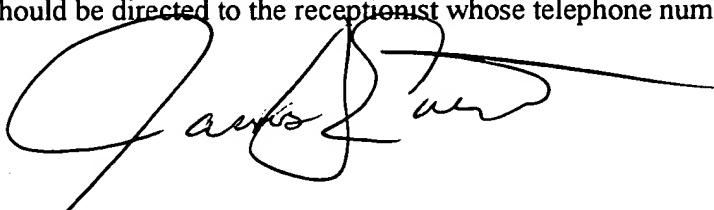
Hall U.S. Patent No. 5,327,433 discloses digital tandem channel unit interface for telecommunications network.

Struhsaker et al. U.S. Patent Application No. 2002/0090962 discloses system and method for interface between a subscriber modem and subscriber premises interface.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James D Ewart whose telephone number is (703) 305-4826. The examiner can normally be reached on M-F 7am - 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (703)308-5318. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.

  
Ewart  
April 13, 2004

  
WILLIAM TROST  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600